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Search scope: US Granted US Applications EP-A EP-B WO JP (bibliographic data only) DE-C,B DE-A DE-T DE-U GB-A FR-A

Years: 1971-2008

Patent/Publication No.: JP09217232

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JP9217232 A
BIODEGRADABLE CONJUGATE
SPLITTABLE FIBER AND FIBROUS
SHEET USING THE SAME
DAINIPPON INK & CHEMICALS;
JAPAN VILENE CO LTD

Abstract:

PROBLEM TO BE SOLVED: To obtain the subject conjugate splittable fiber low in calorific value when combusted, good in biodegradability and storage stability, low in offensive odor, composed of a lactic acid-based copolyester and a crystalline biodegradable polymer, and to obtain a dense and uniform biodegradable fibrous sheet made of the above fiber.

SOLUTION: This conjugate splittable fiber is composed of a lactic acid-based copolyester 110-190°C in melting point composed of three kinds of structural unit, namely, (A) lactic acid component, (B) dicarboxylic acid component and (C) diol component, and a crystalline biodegradable polymer. The other objective fibrous sheet contains the above conjugate splittable fibers; one version of the fibrous sheet is a blend of the above biodegradable conjugate splittable fibers and biodegradable thermofusible fibers containing a low-melting lactic acid-based copolyester 20-70°C lower in melting point than the lactic acid-based copolyester contained in the above biodegradable conjugate splittable fiber.

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Application No. JP199625296A **Filed** 19960213 **Published** 19970819

Original IPC(1-7): D01F000814

D01F000662 D01F000684 D04H000142 D04H000154

Current IPC-R:

Advanced	invention	additional
	D01F000662 20060101	
	C08L010116 20060101	
	D01F000684 20060101	
	D01F000814 20060101	
	D04H000142 20060101	
	D04H000154 20060101	
Core	invention	additional
	D01F000662 20060101	
	C08L010100 20060101	
	D01F000684 20060101	
	D01F000814 20060101	
	D04H000142 20060101	
	D04H000154 20060101	

Priority:

JP199625296A 19960213

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→ JP4100549 B2 20080611

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